

	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	40
835332317.q	PHPLF	PELYVLELARCGC	VL SALD	DGRGCGH	YDE	PAARR	DFVOLASAVAH	HSLDV	FHRDV	KBN	LL D	DIR	RTDF	LIS	FTDAD	OICAT	DCA	IAT	CSSA	VAPAE
43510001.q	ATR	SIVYVLEL	DAAGG	EV	AL	DSR	GCGH	YDE	PAARR	PAQ	SAVAH	HSLC	VCFHR	DIA	PN	LL D	DIR	RTDF	LIS	A
83554626.q	ATR	KIVVHLV	LLAAGG	EV	AL	DSR	GCGH	YDE	PAARR	PAQ	SAVAH	HSLC	VCFHR	DIA	PN	LL D	DIR	RTDF	LIS	A
42200016.q	ATK	KICL	UVM	EV	SPKG	SPKL	SYL	KR	DE	AKK	YF	MOL	DAV	YCH	CR	RV	YH	DR	DK	PGO
18424001.p	GKX	KICL	UVM	EV	YEGG	SPKL	SYL	KR	DE	AKK	YF	MOL	DAV	YCH	CR	RV	YH	DR	DK	PGO
AK065588.q	ASKT	KIYV	VL	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
AK059282.q	ASKT	KIYV	VL	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
60750012.q	ASKT	KIYV	VL	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
15221136.p	ASKT	KIYV	VL	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
18401539.p	ASKT	KINN	VM	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
22531703.q	ASKP	KIF	VL	EV	VG	GEL	DKI	IR	RH	GR	NE	DA	RR	YF	Q	LL	DD	TT	LY	PGO
15233820.p	ASKT	KIYV	VL	EV	VG	GEL	DKI	AV	IK	SE	GR	LF	DL	SD	PS	PL	SG	PG	GD	PGO
AK102270.p	ASKT	KIYV	VL	EV	VG	GEL	DKI	AR	Q	GR	RE	NE	AR	YF	Q	LL	TT	LY	PGO	PGO
15238499.p	ASPS	KIYV	VL	EV	VG	GEL	DKI	EV	IK	EE	ES	RY	Q	LL	DD	TT	LY	PGO	PGO	
30688180.p	ASPR	KIYV	VL	EV	VG	GEL	DKI	EV	IK	EE	ES	RY	Q	LL	DD	TT	LY	PGO	PGO	
AK069726.q	ASKT	KIYV	VL	EV	VG	GEL	DKI	KND	GR	NE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
18397430.p	ASKT	KIYV	VL	EV	VG	GEL	DKI	ISSN	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
83600247.q	ASKS	RIF	VL	EV	VG	GEL	DKI	VNS	GR	CE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
36601877.q	GSRA	RIF	VL	EV	VG	GEL	DKI	VIAN	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
83554692.q	GSKT	RIF	VL	EV	VG	GEL	DKI	VIAN	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
30683336.p	ASKT	KIF	VL	EV	VG	GEL	DKI	VND	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
30683332.p	ASKT	KIF	VL	EV	VG	GEL	DKI	VND	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
30683328.p	ASKT	KIF	VL	EV	VG	GEL	DKI	VND	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
30683340.p	ASKT	KIF	VL	EV	VG	GEL	DKI	VND	GR	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
30688193.q	ASKT	KIYV	VL	EV	VG	GEL	DKI	VHD	GR	RE	NA	RR	YF	Q	LL	DD	TT	LY	PGO	
38580297.q	GSKT	KIYV	VL	EV	VG	GEL	DKI	VHD	GR	RE	NA	RR	YF	Q	LL	DD	TT	LY	PGO	
18420882.p	ATKT	KIF	VL	EV	VG	GEL	DKI	VHD	GR	RE	NA	RR	YF	Q	LL	DD	TT	LY	PGO	
30683398.p	ATKT	KIF	VL	EV	VG	GEL	DKI	VHD	GR	RE	NA	RR	YF	Q	LL	DD	TT	LY	PGO	
15224679.p	ATKT	KIF	VL	EV	VG	GEL	DKI	VHD	GR	RE	NA	RR	YF	Q	LL	DD	TT	LY	PGO	
AK061220.q	ASRA	RVF	VL	EV	VG	GEL	DKI	VHD	GR	TE	PAR	YF	Q	LL	DD	TT	LY	PGO	PGO	
50040004.q	ATRT	KIYV	VALE	EV	VG	GEL	DKI	AR	RH	GR	VE	ARRY	YF	Q	LL	DD	TT	LY	PGO	
36160002.q	ATRS	KIYV	VALE	EV	VG	GEL	DKI	AR	RH	GR	RE	ARRY	YF	Q	LL	DD	TT	LY	PGO	
15235768.p	ASKS	KIYV	VALE	EV	VG	GEL	DKI	AR	RH	GR	RE	ARRY	YF	Q	LL	DD	TT	LY	PGO	
AK107068.q	ASRS	KIYV	VALE	EV	VG	GEL	DKI	AR	RH	GR	RE	ARRY	YF	Q	LL	DD	TT	LY	PGO	
AK065589.q	ASKS	KIYV	VALE	EV	VG	GEL	DKI	AR	RH	GR	RE	ARRY	YF	Q	LL	DD	TT	LY	PGO	
15242509.p	ASKT	KIYV	VALE	EV	VG	GEL	DKI	SK	KI	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
AK103032.q	ASKS	KIYV	VL	EV	VG	GEL	DKI	SK	KI	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
83510562.q	ASKS	KIYV	VL	EV	VG	GEL	DKI	SK	KI	KE	DA	RR	YF	Q	LL	DD	TT	LY	PGO	
83533541.q	ATKS	KIYV	VL	EV	VG	GEL	DKI	KHMR	AK	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
65420021.q	ATRN	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
65410023.q	ATRN	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
18424099.p	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15240687.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK072868.q	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK066541.q	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK101355.q	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15241066.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK069231.q	ATRS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15227739.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15244888.p	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15241067.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
1518854.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15226241.p	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15242507.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15233981.p	ATKA	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK101442.q	ATKT	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
AK066778.q	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
83500991.q	ATKA	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
72270023.q	ATRA	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
68700006.q	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15228920.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
15233500.p	ATKS	KIYV	VL	EV	VG	GEL	DKI	VAK	GR	KE	ES	AR	YF	Q	LL	DD	TT	LY	PGO	
11a_8_A	REGN	IQY	VL	EV	VG	GEL	DKI	ED	ICP	PE	DA	PF	FF	Q	LL	DD	TT	LY	PGO	
2phk_A	EN	TFF	VL	EV	VG	GEL	DKI	ED	ICP	PE	DA	PF	FF	Q	LL	DD	TT	LY	PGO	
1kw_p_A	EN	ENLY	VL	EV	VG	GEL	DKI	ED	ICP	PE	DA	PF	FF	Q	LL	DD	TT	LY	PGO	
1jkk_A	EN	TD	VL	EV	VG	GEL	DKI	ED	ICP	PE	DA	PF	FF	Q	LL	DD	TT	LY	PGO	

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 80

83532317.q LSGLIGPLP DRVRFVVPAGDSRSVVD RVEKLGREGCLVVPRKEEE WRGGVHVSEA TSCKFTIAYVRVSLD KKLMLIE
 43510001.q LSGLIGPLP DRVRFVLPGGDSKSIVD KVELKGREGELVPRKEEE WCGGVHVSEA TSCKFTIAYVRVSLD KKLMLIE
 83554626.q LSGLIGAEP GKEE VEVGEPAAAVS RVEEAGKKEGYMVRECKK GTGPVYVKG
 42200016.q LSGLIGEQ KKLASPHPPVQETFD KIKVAKDVSMAVIRRMNSS ENEGTIVAKXCVKTAIDAWVV
 18424001.p LSGLIFEDND DKRYKGRIGSKNTAQETK KIEAAAATVSLSPRVIKHF IVEIODS KLKP
 AK065588.q LSGLIFEDND ASCKRDRFISTHSPKDAFD KIENVVTEMGFQVCRGNISK RSNIDDTLSAEVWIEVTPTCVIE
 AK059282.q LSGLIFEDDEE VSORRIFSTSHPPKDAFD KIERSRNPSPSPTSLFE RNSSFLVCTIEVVEIOPSPVYV
 60750012.q LSGLIFEDDEE VSERKRFPSNYSPTSLFE KIESTVTEKGFQVKNNSK LKVNRCNGSK
 15221136.p LSGGPFETEK LSGRDRFSSNLAKDLE NIEITITFTEMGFCLKKKIAK RNESFSVME
 18401539.q LSGGPFEEQN VSERRIFSSNKADLIE KIETAVTEKGFQVKNNSK LKVNRCNGSK
 22531703.q LALALFDRRDY DKLDRFISRKPAKVI SMEVVAQSMGYKTHIRNYKT LKVNRCNGSK
 15233820.p LATLALFDRKD MKHDRFISRKPAKVI SMEVVAQSMGFKTHIRNYK LKVNRCNGSK
 AK102270.p LSAFLDFRQEF VKRDRFISRKPAKTIWA TIEVVAETMGLKVHSQNYK TSHFSVILEWFVKA
 15238499.p LSAFLDFRRDVF VKRDRFISRKPAKTIWA TIEVVAETMGLKVHSQNYK TRPEGLSSIK
 30688180.p DQAMKIKPKMKESGCKPTASTFNTLIKGYKIKGLEESSRLDDMLRDEMOPNDRTCNILVQAWCNQRKIEEAWNIVYKMQSYGVKPDVTFNLTAKAYARIGSTCTAEDMIPRMLHNKVKPNVRTCGTIVNGYCEEGKMEEARLRFYRKELGVHPNLFVFNLSIKGFLNINDMDGVSEVUDLMEETVVKPDIVTFS
 AK069726.q LSTLDFEKQS QSVKRFISRKPAKVI SIEAAAAGFMGVNPKRNYK LKQGENPGR
 18397430.p LSSLDFEQ MOLVKRKFPSKSSANNEIVT KIEAAAAGFMGVNPKRNYK KGDGTGKSR
 83600247.q LENLDFEKEM MGMVKRKFPSKOCPPGEIMS KIEEACGELGFNVNPKRNYK KGDGTGKSR
 83601877.q LDNLDFEAK KEYKRFISRKPSKKEIIIN KIEEAAKPLGFIDICKNNYK MRLENLKGAR
 83554692.q LDNLDFEESD KKYKRFISRKPSKKEIIIN KIEEANLNLGFNICKRNYR MRLENLKGAR
 30688336.p LENLDFDPE QEFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYK KGDGTGKSR
 30688332.p LENLDFDPE QEFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYK YIT
 30688328.p LENLDFDPE QEFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYK VSENSVTEMK
 30688340.p LENLDFDPE QEFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYK VSENSVTEMK
 30688193.p LENLDFEEESIPFN LOGFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYK LCTMPHENVTAGR
 83580297.q LENLDFDSE QEFKRFISRKPSKKEIIIN KIEEAAKPLGFDVKKNYKICSPCLTTICMN IPFKRLRKEVKA
 18420882.p LSLDFESKRKL RSKPSKKEIIIN KIEEAAKPLGFDVKKNYK RKFQHATVIEVEVAPVAFV
 306883398.p LSLDFESKRKV OSVPSRKSATEVME KIEEAAKPLGFDVKKNYK RKFQHATVIEVEVAPVAFV
 15224679.p LSNLDFEIKRP KRMFISKFPKAVSKVE RIEATAERMDMRVYKVKDC RKFQHATVIEVEVAPVAFV
 AK061220.q LSGMPESEOKA AIVPSRAPAATVQ KLEAVAVGRSLVGYSATRGKGW RKFQHATVIEVEVAPVAFV
 50040004.q LSPLEHDPAASPRATA RAGGIKRFISRKPSKKEIIIN RIEALAMGG A ANGRHATVIEVEVAPVAFV
 36160002.q LSPLEHDPSAK -GR- RDGGMFPSKREPAASGVIS RLOGVAARG A PALSILMVD
 15235768.p LSPLEHDPEKKKE EKRFISRKPSKKEIIIN SLECAEVGRGNKFDVRIKSES CRMRGPEPPG
 AK107068.q LSGMPCHGHSS RTQDOLFWTQKPATAIIVS RIEEAAJET-ESFKVKKQEDG RKFQHATVIEVEVAPVAFV
 AK065589.q LSGLIFEND -KE- OKADSRFISRKPSKKEIIIN KLEQQAET-ESFKVKKQEDG RKFQHATVIEVEVAPVAFV
 15242509.p LSGLIFEXE ERSEPKRFISRKPSKKEIIIN RIEEAAJETTSSERFNLDKSDVG RKFQHATVIEVEVAPVAFV
 AK103032.p LSGLIFEDTH GHQRFISRKPSKKEIIIN KIKEEAKR-LKLKVKKKDN KKGFBELD
 83510562.q LSNLDFEERY RIEEAAJETTSSERFNLDKSDVG KINEEARR-FKLKVKKKDN GVLRLAAFK
 83533541.q LSGLIFEXERY GRREELPSRKPAAAIIFA KIKEEAKR-LKLKVKKKDN GVLRLAAFK
 65420021.q LSGMPDVKE -WRNEAERFISDKSASTIIS KLEOVAKA-LNLRVKKRDN GVLRLAAFK
 65410023.q LSGMPDVKE -WRNEAERFISDKSASTIIS KLEOVAKA-LNLRVKKRDN GVLNRQGRKEG
 18424099.p LAGLFEDD- NKRFISRKPSKPAVSIIS KLEEVAOR-LKLSTLRKREA RNFQDIEFIDIEFVTSVHII
 15240687.p LASLDFDGVY DKRFISRKPSKPAVSIIS KLEEVAKC-LKLKIRKQGA GLFKLQGWKEG
 AK072868.p LSGMPE-ES DKKESRFISRKPSKPAVSIIS KIEEDIAKG-KLKLKIRKQGA GLKNGMEGSKPG
 AK066541.q LSAMPEDEN -KEEESRFISRKPSKPAVSIIS KIEEVAKN-IRLKFLKKNQ RKGVMSINA
 AK101355.q LSGLIFEPID KKEKRFISRKPSKPAVSIIS KLEDVAAC-SKLTVKKKBG GVLMNEGASEG
 15241066.p LSGLIFEPKGE EKEEAKRFISRKPSKPAVSIIS KLEEVAKE-LKLKIRKQGA HEWVKMSAEA
 AK069231.q LSGKMPDAEE RSERFISRKPSKPAVSIIS KLEEVAEA-GRFSEKSLKEK RKGPAEIAE
 15227739.p LSGLIFAGCSNSSGESE RFISSEKSPMLE EVEEAEKRFISRKPSKPAVSIIS GIVPELEGQSQDG
 15224888.p LSGLIFGNVFTP-DHCD RFISDESTAVIIR KLEEVAEAKRFISRKPSKPAVSIIS CFEMEG
 15241067.p LSGLIFDARDKY-DRVE RFISAVATAEVVRE KLEEVAEAKRFISRKPSKPAVSIIS QNCKFGIGICSRINDLUVV
 15218854.p LSGLIFEEEGCET RFWISGAPVSKIIIS KLEEVAEAKRFISRKPSKPAVSIIS ATKREG
 15226241.p LSGLIFEE-GGQGA RFISGAPVSKIIIS KLEEVAEAKRFISRKPSKPAVSIIS PHGVANVVKURCPNEV
 15242507.p LSGLIFED-DGEQS RFISGAPVQGIIIS KLEEVAEAKRFISRKPSKPAVSIIS CMKHEG
 15233981.p LSGLIFDD-DGEQS RFISGAPVQGIIIS KLEEVAEAKRFISRKPSKPAVSIIS QKGNFAMV
 AK101442.q LSGLIFEE RGNEI RFISGEPMSDIVK KLEEVAEAKRFISRKPSKPAVSIIS GVLMNEGASEG
 AK066778.q LSGLIFEE RGSEV RFISGAEPMQTIIIT KLEEVAEAKRFISRKPSKPAVSIIS RKGPAEIAE
 83500991.q LSGLIFEDDDGGAGAGS1PE QOKHTARFISAAAPVEVIVA ISNEGATREC
 72270023.q LSGLIFEDHD KSLRFISRKPSKPAVSIIS TLEAAAAAGMAVREBDGS RKGPAEIAE
 68700006.q LSGLIFEE-S KRRRFISRKPSKPAVSIIS ISNEGATREC
 15228920.p LSGLIFEA KKKKCFRFIAKVGVEVBE KAKMIGEKLGVVVRKRMK RKGPAEIAE
 15233500.p LSGLIFER RKRKEFARVSAERVVE KAGMIGEKLGVFVERK RKGPAEIAE
 lia_A
 2phk_A
 1kwp_A
 1jkk_A

VLKEEKERWEDVKKEEMTS
 DTQQALSS
 AWASHPQFEK
 NPLUKRKKARALEAAALAH

